ALEMITE INDUSTRIAL LUBRICATION

Equipment

AND

Lubricants

ALEMITE CORPORATION
CHICAGO ILLINOIS

ALEMITE LUBRICATION is . . .

CONTENTS

STANDARD EQUIPMENT IN THE PRODUCT OF OVER 750 MANUFACTURERS

MORE than 750 manufacturers in all lines of industry now use Alemite Lubrication as standard equipment on the machines they make.

Wherever there is a moving part or bearing there is danger of the two metal surfaces coming in contact. Wherever there is metal-to-metal contact there is **friction** which steals away the power and vitality of a machine.

The fight against friction has been one of Industry's most perplexing problems. Gruelling wear at the vital bearings of a machine invariably leads to interrupted production for the repair and replacement of costly parts. Proper lubrication is the one thing that will check the ravages of friction, yet millions of dollars worth of industrial machinery is scrapped every year because lubrication has been neglected, or because the means of lubricating are inadequate.

There is a sure method of protection against nearly three-fourths of all frictional losses. It is the ALEMITE HIGH PRESSURE LUBRICATING SYSTEM.

In mines, quarries, factories, foundries, bakeries, laundries, print shops and saw mills ALEMITE LUBRICATION is reducing the cost of operating machinery. It is being successfully applied to line shafts, bridge gears, and industrial machines. It is giving greater speed, endurance and dependability to all kinds of productive equipment.

ALEMITE LUBRICATION is positive; it is cheaper and safer to apply, and the ease with which it may be performed encourages systematic and methodical use.

ALEMITE LUBRICATION will reduce the cost of operation and increase production profits in every line of industry.

ALEMITE CORPORATION

1826 Diversey Parkway, CHICAGO, ILL.

See back cover for Alemite Distributors

ADVANTAGES OF HIGH PRESSURE LUBRICATION

WHY POSITIVE LUBRICATION?

IT isn't hard to understand why American industries scrap six billion dollars worth of machinery and parts every year, when we stop to consider the abuse they are subjected to. For under the heading "abuse" we must consider the item "negligence in lubrication." Every time a machine bearing is forgotten or overlooked by the oiler or greaser, the machine is punished.

But it is not always the fault of the man who lubricates your machinery. If your machine bearings are equipped with grease cups or oil holes, they may receive the best of attention—yet at the same time, are not positively lubricated.

Theoretically, the properly lubricated shaft floats completely on a film of lubricant. If that bearing is on a line shaft, theoretically it should operate as in Fig. 1 below. But more often Fig. 2 is a likely illustration. The shaft does not turn evenly in the bearing—a small amount of lubricant at point "A" does little or no good —friction and heat develop at "B" and sooner or later the expense of bearing replacement is unavoidable.

Such is quite often the case where a grease cup or oil hole is the only means of lubrication. The maximum pressure developed by the most efficient grease cup is about 40 pounds—a pressure wholly insufficient to force lubricant to all parts of the bearings, and a tedious time-wasting process. Only from 2% to 4% of the oil squirted into a bearing through an oil hole actually serves as a lubricant for the bearing. It drips away, effecting much more damage than lubrication.

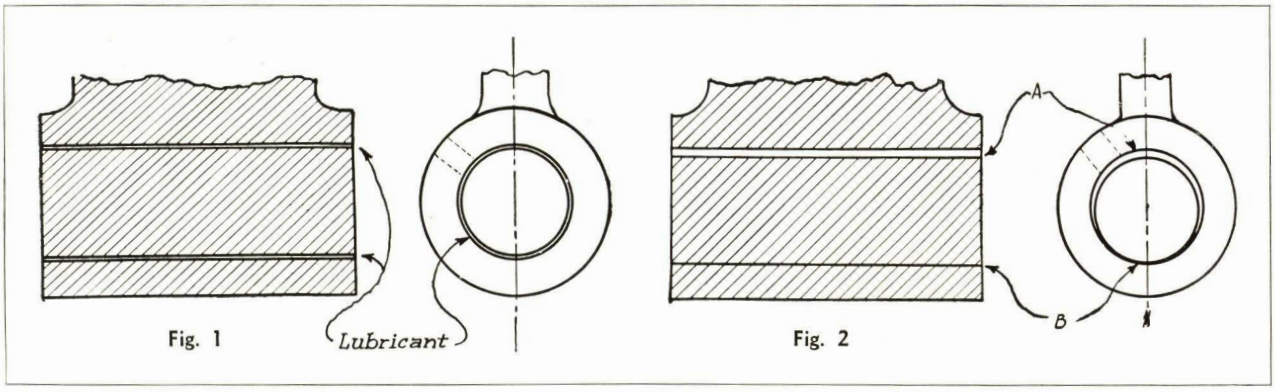


Fig. 1 Fig. 2

HIGH PRESSURE METHODS

The principle of high pressure lubrication is this—a solidified oil may be used, a lubricant which does not drip away but clings to bearing surfaces to serve as a proper lubricant until it is entirely "spent." Such a lubricant, when applied under a pressure of from 2,000 to 5,000 pounds, is forced to the most remote parts of a bearing—yet when such lubrication is in use, all grit and worn out grease are forced out of the bearing. No dust or dirt, that has found its way into the bearing, can remain to scratch and mar its polished surfaces.

And with the proper Alemite fitting installed, the bearing is practically sealed, insured against abuse. The hazard which is ever present when the human element is involved, is practically eliminated. There is no possibility of neglect, for bearings are easy to lubricate. Regardless of the location of a bearing, its lubrication may be conducted properly from a safe, convenient point.

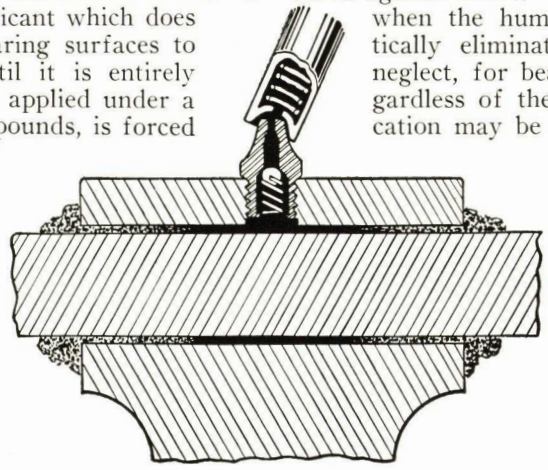


Fig. 3

These features of Positive Lubrication assure the plant owner or operator, that he is following an efficient plan for keeping his machinery in good condition.

These features alone can save him thousands of dollars each year, if he will but place this item of maintenance on a systematic basis.

THE ALEMITE BARREL-TO-BEARING SYSTEM——GENERAL

FROM BARREL TO BEARING WITHOUT EXPOSURE

HERE is a method by which bearings on your machinery may be lubricated with lubricant which has never had an opportunity of being contaminated with dirt, cinders or other foreign matter. For by means of the Alemite Barrel-to-Bearing system, this lubricant is forced from its original shipping barrel, to your machine bearings without ever being exposed to air.

What tremendous advantages such a system offers!

First of all, it means that the old time method of squirting oil at an oil hole, or filling grease cups with a paddle, may be abandoned—a slow, tedious process eliminated. It means that where you probably use both oil and grease for lubrication, you can now standardize on one lubricant—Alemite solidified oil. It means that every ounce of lubricant can be measured so that actual lubrication costs may be kept. Your oil storage room will be spotlessly clean—free from grease droppings and oil-soaked floors which constitute a plant's chief fire hazard. Lubrication can be completed in less than half the time required by ordinary methods, in an easy, systematic manner. No lubricant can be wasted, for it is always handled by efficient equipment, under pressure.

Drum and Truck

1010 Filler Tank

HERE'S THE SYSTEM!

The drawing at the left clearly illustrates the Alemite Barrel-to-Bearing system. You will notice that the Alemite Lubricant shipping drum has been specially prepared for the insertion of a barrel pump through a 2-in. bung. No prying or cutting of the drum head is necessary. Merely replace the screw cap with the pump. In order that the 400 pounds of lubricant can be easily moved about the store room, a special dolly may also be procured. This pump delivers exactly one pound of lubricant per stroke—a feature which offers the storekeeper an opportunity for an accurate check on the quantity of lubricant used, or in storage at any time.

This pump is equipped with a six-foot hose at the end of which is mounted a patented drip-proof nozzle, which eliminates the possibility of waste.

Fig. 5

This barrel pump is used to fill the second piece of equipment used in "Barrel-to-Bearing" lubrication, the Model 1010 Filler Tank, shown also at the left. This Filler Tank is designed for an intermediate supply of 21 pounds of lubricant; it is portable and is carried about the shop or plant in order that the man in charge of lubrication will not have to return repeatedly to the stock room for lubricant (Fig. 5). The nozzle of the barrel pump is inserted in the Filler Tank opening—twenty-one strokes of the pump crank and the Filler Tank is full. (Fig. 4.)

The Filler Tank is an automatic device for loading the Alemite Push-type Compressor, Model 3-G, which hangs on a bracket at its side. The 3-G gun is designed with a hollow handle, closed by a screw cap. When this cap is removed the pistol grip handle slips snugly over exposed nozzle of the Filler Tank. One turn of the Tank crank and nine ounces of lubricant are shot into the gun, completely filling it. (Fig. 6, page 3.)

From this point on, lubrication is very simple. With each bearing equipped with either a threaded or a drive-fitting (see page 6), lubrication is performed merely by contact with the compressor. Its concave nozzle is placed over the cone-shaped fitting—and with slight pressure, lubricant is shot into the bearing under thousands of pounds pressure. (Fig. 7, page 3.) By repeated strokes, fresh clean lubricant is forced to all parts of the bearing, pushing out grit and old grease which has served its purpose.

Alemite lubricant contains no fillers which remain in bearings to clog and bind them—it is a positive friction remover, and contains no ingredients which are incorporated for purposes other than lubrication. It is solidified by a cooking process which combines the oils and animal fats in such a manner that they will not separate or break down under the high pressures. Temperatures of 200° will in no way affect its lubricating qualities. It is the lubricant compounded especially for use with Alemite high-pressure systems, and its use will not only insure proper bearing operation but will eliminate all possibilities of trouble with this type of lubrication. (See page 13.)

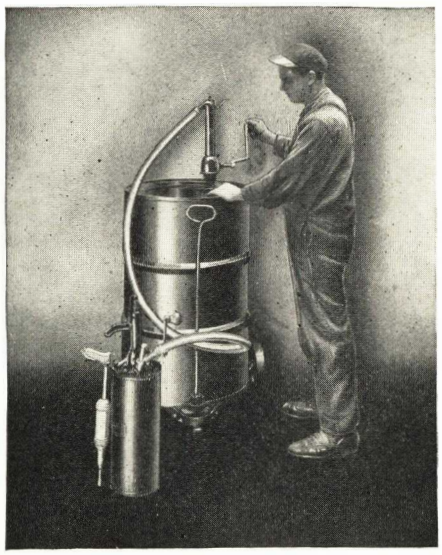


Fig. 4

BARREL-TO-BEARING SYSTEM—THE ALEMITE HEADER BLOCK

THE SYSTEM—CONTINUED

Fig. 6

Compare this systematic lubrication plan with the methods in use in your plant at present. How many men are performing this most important duty in your shop? And how long does it take them? Repeatedly, users of this system have shown us where the actual saving in time and labor for one year will net a 200% return on the investment in equipment and lubricants.

And think of the intangible items which are directly affected by the installation and use of these modern methods. How many dollars of your overhead expense could be saved if your fire insurance rates were reduced; if 80% of your machine breakdowns could be eliminated; if two-thirds of your present spoilage due to dripping oil could be prevented; if your power consumption could be reduced 10% through smoother operation of line shafts, speed reducers, conveyors, and machinery in general?

Barrel-to-Bearing Lubrication will accomplish this for you—in just the same manner that it is working for over 12,000 plants today.

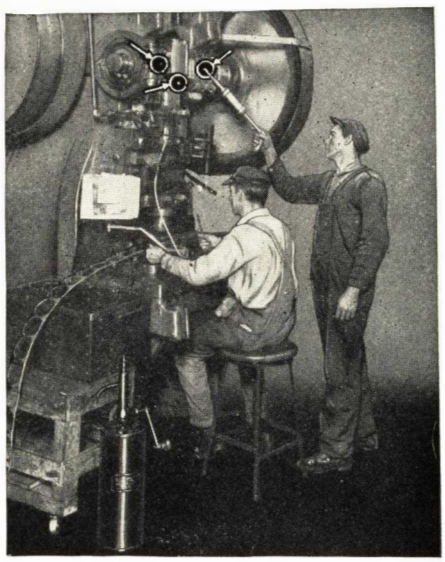


Fig. 7

LUBRICATION FROM A CENTRAL POINT

HAPHAZARD systems of lubrication are largely responsible for many costly and dangerous plant operating practices. Shutting down the machinery for lubrication is costly and where men must wait until closing time or the noon hour to lubricate machines hard to reach while running, you are obliged to gamble that in the meantime, the bearings will not need a wear-protecting film of lubricant.

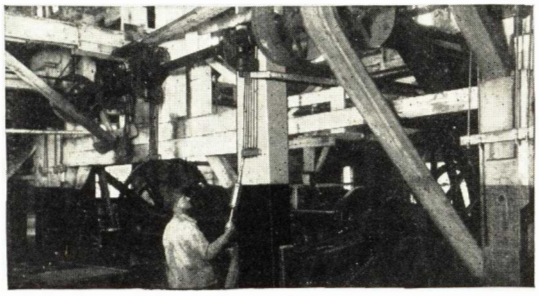


Fig. 8

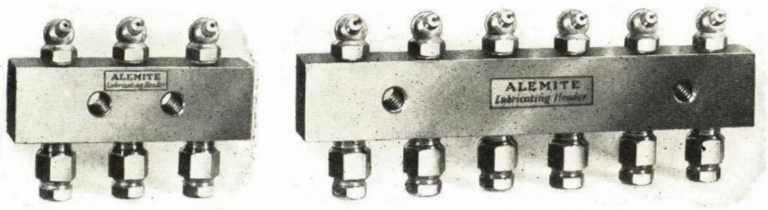
Where the machinery is not shut down the workmen must often reach or climb about the machines to get to the lubrication points—a practice responsible for a very large percentage of the total industrial accidents today.

The Alemite Header Block

The most economical and safe method of lubricating those bearings is by use of Alemite Header Blocks which contain either 3 or 6 Alemite Push-type fittings and corresponding tube couplings. They are drilled and tapped for mounting either directly on a machine or a column in the building (Fig. 8). Lubricant is conducted from Header Blocks to bearings by $\frac{1}{8}$ in. copper tubing, and with proper connection made at bearing, lubrication is a simple process. For lubricating more than 6 bearings from one point, additional Header Blocks are added.

No noticeable loss in pressure occurs, even where 100 ft. of tubing is used between Header Block and bearing. The Alemite Push-type Gun (see page 5) supplies 5,000 lbs. pressure—an assurance that lubricant reaches its destination—and in measured quantities, permitting operator to know how much lubricant reaches each bearing, including those out-of-sight.

Compare this simple method, as it applies to line shaft bearings, with your present method of "ladder" lubrication. With the use of Header Blocks with the Barrel-to-Bearing system, ladder carrying is eliminated, three-fourths of the time and much of the lubricant is saved, the personal hazard is minimized and all interruptions due to shutting down for lubrication are eliminated.



5024—3-stage 5025—6-stage

ALEMITE HEADER BLOCKS

BARREL-TO-BEARING SYSTEM—THE ALEMITE DRIVE FITTING

PERMITS ANY BEARING TO BE ALEMITE EQUIPPED IN 3 MINUTES

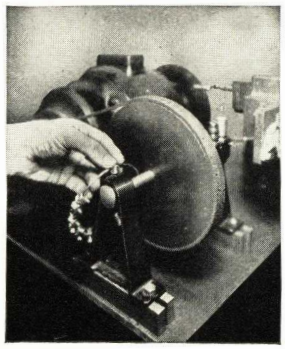


Fig. 11

It is easy to determine which adapter should be used, with the aid of the special adapter gauge. Remember—use the size larger than the largest adapter which may be inserted.

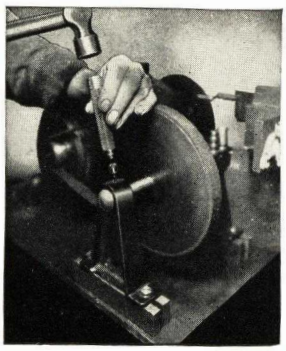


Fig. 12

Insert the adapter drive tool in the adapter head, and drive it into place. The accurately machined shank will grip the oil hole permanently.

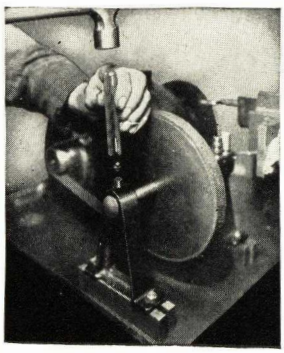


Fig. 13

Next use the special fitting drive tools—one tool for straight fitting—one for angle—and drive the fitting into the adapter. It will fit accurately and firmly.

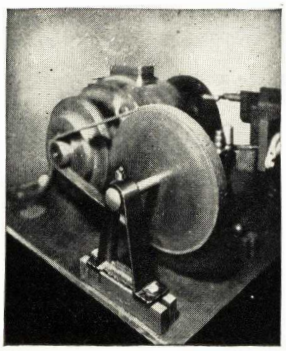


Fig. 14

Compare this bearing, equipped for systematic lubrication, with those in your plant which are constantly covered with oil and dust.

THE historic chariots of old Rome are just as out-of-date today as the oil holes the old warriors drilled in their crude bearings to provide for the lubrication of their chariot wheels—nevertheless machine bearings are still equipped for such crude lubrication. And when one stops to consider how inefficient such methods are the essential need of a modern lubricating system becomes more and more apparent.

Investigations show that of the oil purchased for industrial use in lubrication through oil holes, only about 2 to 4% actually is efficient. There is a tremendous waste in oil storage rooms—oil cans are filled till they overflow. Much oil is wasted by inefficient labor—it is common practice to squirt the can two or three times to see if it is working properly. Next the oil can spout is pointed "toward" the oil hole, and the can again goes into action. Oil runs out at bearing ends or it backs up in the none too clean oil hole and floods the outside of the bearing, dripping off on the floor or machine. All grit that has found its way through the open oil holes remains in the bearing to scratch and mar its surfaces.

The Alemite Drive Fitting

Alemite Drive Fittings provide a simple means of closing these oil holes and lubricating all bearings by one method. The Alemite Drive Fitting consists of an adapter and a fitting containing a ball check valve. In closing an oil hole, the proper size adapter is first determined by means of the ring gauge shown on page 5, on which all sizes of adapters are mounted—there are sixteen varying in size from ⅛ to ½ in. diameter.

The proper size and type adapter (see Fig. 10) having been selected and inserted, a special Alemite Push-type Fitting is next driven into the hole provided in the top. These fittings, listed on page 5, are all the same size, accurately machined to fit all adapters. The ball check valves, within the fittings, hold the lubricant in the bearing and prevent the entrance of foreign matter.

Figures 11 to 14 inclusive clearly illustrate the method of applying Alemite Drive Fittings to all types of oil holes. *Any bearing* may be equipped for Barrel-to-Bearing lubrication in three minutes—and these drive fittings permanently assure proper lubrication with no waste, no loss of time, no damaged materials or oil-soaked floors.

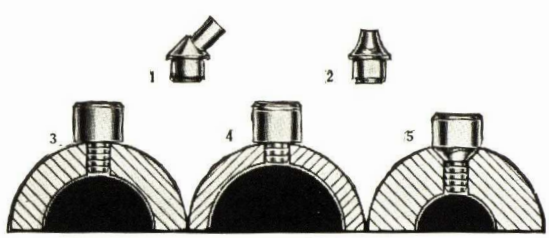
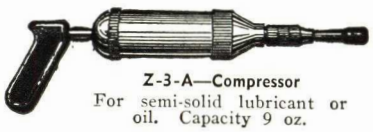


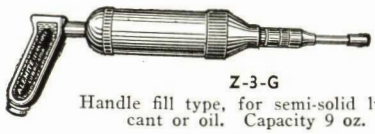
Fig. 10

Showing the three types of adapters: No 3 standard, No. 4 short and No. 5 countersunk shank. Fittings include No. 2 straight nipple for vertical contact with compressor and No. 1, a 67½° angle nipple for angular contact.

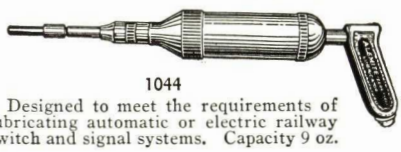
BARREL-TO-BEARING SYSTEM—EQUIPMENT



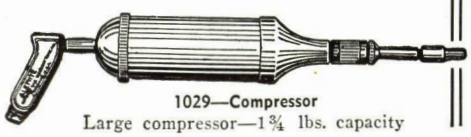
Z-3-A—Compressor
For semi-solid lubricant or oil. Capacity 9 oz.



Z-3-G
Handle fill type, for semi-solid lubricant or oil. Capacity 9 oz.



1044
Designed to meet the requirements of lubricating automatic or electric railway switch and signal systems. Capacity 9 oz.



1029—Compressor
Large compressor—1¾ lbs. capacity

PUSH-TYPE COMPRESSORS

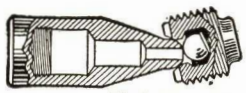
Standard Alemite 3-G Push-type Compressor delivers 1 oz. of lubricant in 50 strokes and the 1029 compressor delivers 1 oz. in 15 strokes. By placing a collar of any desired length just above the nozzle, the amount delivered per stroke may be reduced, as required. Lubricant delivered to bearing is accurately measured by the strokes of the compressor.

LOW PRESSURE NOZZLES

Any Alemite Push-type compressor may be transformed into a low pressure gun which empties its entire charge of 9 oz. in one rapid stroke, by substituting Low Pressure Nozzle Z-615-AA or Z-616-A.

FILLER TANKS

Intermediate supply tanks for use in Barrel-to-Bearing lubrication—filled through tap directly from Alemite Drum by the Alemite Barrel Pump—capac., 20 lbs.; weight, loaded, 35 lbs.



←Fitting

Flush Type Nozzle

Interchangeable on Z-3-A, Z-4-A, Z-3-G and Z-6-B compressors. Detail illustration showing lubricating contact of Z-737 nozzle and our flush type fitting

Z-615 AA Elbow

Z-616-A Straight

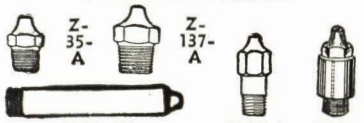
Low Pressure Nozzles

For quick filling of parts requiring large quantities of lubricant, such as gear cases, transformer housings, etc.

1010—Filler Tank

ALEMITE PUSH-TYPE FITTINGS

STRAIGHT FITTINGS



⅛" P. T. Fittings

Z-35-A	⅛" P.T.S.F.*
1212	⅛" P.T.S.F. Hardened Tip
1447	⅛" P.T.S.F. 3/32" long
Z-85-A	⅛" P.T.S.F. Long Body
Z-604-A	⅛" P.T.S.F. 2⅜" long
1391	⅛" P.T.S.F. 2⅝" long
Z-87-AX	⅛" P.T.S.F. 2⅝" long
1333	⅛" P.T.S.F. 2⅞" long, spec.
1367	⅛" Double Check

¼" Pipe Thread Fitting

Z-137-A	¼" P.T.S.F.

⅜" Pipe Thread Fitting

1249	⅜" P.T.S.F.

*S.F. Straight Fittings.

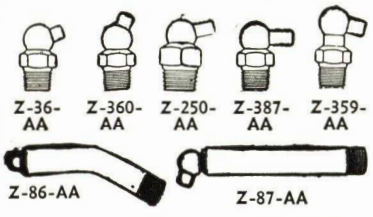
Special Fittings

1295	¼"-32 M.T.S.F.
Z-694-A	5/16"-32 M.T.S.F.
1218	5/16"-32 M.T.S.F. No. B. & S.
Z-676-A	⅜"-24 M.T.S.F.
1392	7/16"-20 M.T. Extension Fitting

Special Fittings, Various Angles

1296	¼"-32 M.T. 67½° E.F.
Z-695-AA	5/16"-32 M.T. 67½° E.F.
1381	5/16"-32 M.T. 90° E.F.
Z-677-AA	⅜"-24 M.T. 67½° E.F.
1230	⅜"-32 M.T. 30° E.F.
1398	7/16"-20 M.T. 67½° E.F.

ELBOW FITTINGS



⅛" P. T. Elbow Fittings 30° Angle

Z-360-AA	⅛" P.T. 30° E.F. Regular
Z-133-AA	⅛" P.T. 30° E.F. Long Tip
Z-655-AA	⅛" P.T. 30° E.F. 2" long
Z-86-A	⅛" P.T. 30° E.F. 2 3/32" long

⅛" P. T. Elbow Fittings 45° Angle

1250	⅛" P.T. 45° E.F. Regular
Z-673-AA	⅛" P.T. 45° E.F.

⅛" P. T. Elbow Fittings 67½° Angle

Z-36-AA	⅛" P.T. 67½° E.F. Regular
1448	⅛" P.T. 67½° Short Tip
Z-37-AA	⅛" P.T. 67½° E.F. Long Body
Z-87-AA	⅛" P.T. 67½° E.F. 2 1/8" long
Z-630-AA	⅛" P.T. 67½° E.F. 3¾" long

⅛" P. T. Elbow Fittings 90° Angle

1399	⅛" P.T. 90° E.F. Short Body
Z-387-AA	⅛" P.T. 90° E.F. Regular
1235	⅛" P.T. 90° E.F. 1 1/8" long
1435	⅛" P.T. 90° E.F. Lock Nut

⅛" P. T. Elbow Fittings 105° Angle

Z-359-AA	⅛" P.T. 105° E.F.

¼" P. T. Elbow Fittings

Z-250-AA	¼" P.T. 67½° E.F. Regular

ALEMITE AUTOMATIC LUBRICATING CUP

A device for use with Push-type compressor and which provides a constant, regulated flow of lubricant to the bearings. Plain and adjustable type. The springs can be changed to a different tension to obtain a more or less rapid flow of lubrication.

Part No.	Description	Part No.	Description
G-43500	½ oz. Plain Automatic	G-43530	1 oz. Adjustable
G-43510	1 oz. Plain Automatic	G-43540	1 oz. Adjustable
G-43520	1 oz. Plain Automatic	G-43570	2 oz. Adjustable
G-43550	2 oz. Plain Automatic	G-43580	2 oz. Adjustable
G-43560	2 oz. Plain Automatic	G-43610	4 oz. Adjustable
		G-43620	4 oz. Adjustable

ALEMITE DRIVE FITTINGS

DRIVE FITTINGS

To be used with adapters below

DRIVE FITTING ADAPTERS

Gauge No.	No. of rings	Drive size, in.	Shouldered Short	Shouldered Long	Tapered Long
1	1	⅛	P-42501	P-42502	P-42503
2	2	9/64	P-42504	P-42505	P-42506
3	3	5/32	P-42507	P-42508	P-42509
4	4	11/64	P-42510	P-42511	P-42512
5	0	3/16	P-42513	P-42514	P-42515
6	1	13/64	P-42516	P-42517	P-42518
7	2	7/32	P-42519	P-42520	P-42521
8	3	¼	P-42522	P-42523	P-42524
9	4	9/32	P-42525	P-42526	P-42527
10	0	5/16	P-42528	P-42529	P-42530
11	1	11/32	P-42531	P-42532	P-42533
12	2	3/8	P-42534	P-42535	P-42536
13	3	13/32	P-42537	P-42538	P-42539
14	4	7/16	P-42540	P-42541	P-42542
15	0	15/32	P-42543	P-42544	P-42545
16	1	½	P-42546	P-42547	P-42548

DRIVE TOOLS

5026—Adapter D. T.

5027—Straight Fitting D.T.

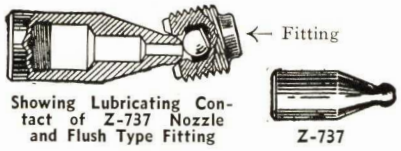
5028—Elbow Fitting D. T.

BUY GOOD EQUIPMENT AND ALEMITE IT FOR SAFETY

ALEMITE INDUSTRIAL LUBRICATION SYSTEMS

FLUSH TYPE SYSTEM

5069—Compressor
Same as Z-3-G, page 5, except that it is equipped with flush type nozzle



Showing Lubricating Contact of Z-737 Nozzle and Flush Type Fitting

Z-737

The Alemite Flush Type System has been developed for use on Line Shaftings, Pulleys, or any revolving machinery which must have the lubricating fitting set flush with the place where it is installed in order to avoid some other part to which it may come near. The average fitting protrudes a little and would be immediately snapped off as soon as it came into contact with another part.

The Flush Type Nozzle can be supplied for all standard Push Type Compressors.

FLUSH TYPE NOZZLES

Z-737 Flush Type Nozzle. Interchangeable with regular nozzles on Z-3-A, Z-4-A, Z-3-G and Z-6-B Compressors.

P-41859 Flush Type Nozzle. Interchangeable with regular nozzles on Z-7-B, Z-7-C and Z-7-D Compressors.

P-41613 Flush Type Nozzle. Interchangeable with regular nozzle on 1029 Compressor.

Z-706-A Z-730-A Z-731-A Z-741-A Z-742-A 1452

FLUSH TYPE FITTINGS

Z-706-A	5/8"-18 M.T. Flush Type Fitting	1291	1/4" Pipe Thread Straight
1528	1/4" Drive Flush Type Fitting, oil tight	1297	3/8"-16 M.T. Straight
Z-730-A	5/16" Drive Flush Type Fitting	1365	1/8" P.T. 7/16" Hex. Flush Type Fitting
Z-731-A	3/8" Drive Flush Type Fitting	1452	1/8" P.T. Fitting
Z-741-A	1/4" P.T. Pipe Flush Type Fitting	1514	1/8" P.T. 2 7/16" Ext. Flush Type Fitting
Z-742-A	1/8" Pipe Flush Type Fitting		

GIANT FLUSH TYPE FITTINGS, NOZZLE AND CLEANER

1039—Mine Car Lubricating Gun

1334 1260 1258 1259

1260 5/8"-11 M.T. Giant Flush Type Fitting
1334 1/2"-12 M.T. Giant Flush Type Fitting
1338 3/8" Pipe Thread Giant Flush Type Fitting
1257 1/2" Pipe Thread Giant Flush Type Fitting
1258 3/4" Pipe Thread Giant Flush Type Fitting
1259 1" Pipe Thread Giant Flush Type Fitting

1139 Hose and 1039 Gun Assembly for Giant Flush Type Fittings—Hose, 5 ft. 6 in. Long

1144 Hose and 1039 Gun Assembly for Giant Flush Type Fittings—Hose, 10 ft. long

GIANT FLUSH TYPE FITTING CLEANER

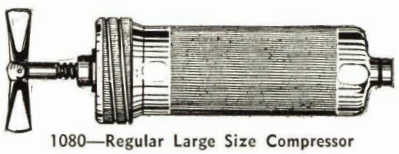
No. 5010
Slight pressure on handle causes cleaner to revolve—automatically cleans the fittings

BUTTON HEAD SYSTEM

The Alemite Button Head system was developed primarily for industrial purposes. This system can be used in connection with our Service Compressors (see page 11) very easily, simply by changing the couplings of the Hose.

Compressors

Any of the Alemite Compressors listed on Page 11 can be used with the Button Head system.



1080—Regular Large Size Compressor

1110—Heavy Duty Hose Equipped with Pull-on Coupling

The use of the Button Head Hose is not limited or restricted to the 1080 Compressor alone—but can be used with any Alemite Compressor wherever conditions or necessity demands.

FOR USE ON LINE SHAFTING, PULLEYS AND REVOLVING MACHINERY

ALEMITE INDUSTRIAL LUBRICATION SYSTEMS

BUTTON HEAD SYSTEM—CONTINUED

BUTTON HEAD TYPE FITTINGS

Standard Button Head Alemite Fittings are particularly designed for industrial purposes. To be used in connection with Compressors on Page 6, Hose on Page 8 and Service Compressors with the Button Head Couplings.

Limited number of illustrations shown—furnished in all standard sizes and threads.

STRAIGHT FITTINGS

A-1184 A-1186 A-1188 A-1190

Pipe Thread Fittings

A-1184	1/8" P.T. Button Head Fitting, long thread
1246	1/8" P.T. Button Head Fitting, short thread
A-1186	1/4" P.T. Button Head Fitting
A-1188	3/8" P.T. Button Head Fitting
A-1190	1/2" P.T. Button Head Fitting

Heavy Duty Heat Treated Fittings

1401	1/4" P.T. Fitting for heavy lubricants
1396	3/8" P.T. Fitting for heavy lubricants

C-69—1/8" P. T. Female — 1396—Detail — A-369—5/16-32 M. T. Jr., Button Head Fitting

Female Fitting

C-69 1/8" P.T. Button Head Fitting (female)

Waterpump Fitting

A-1106 3/8" W.P. Fitting

Junior Button Head Fitting

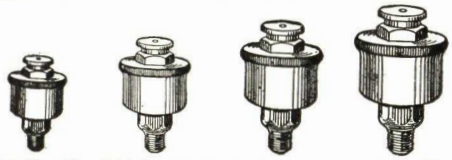
A-369 5/16" 32 M.T. Junior Button Head Fitting

ELBOW FITTINGS

1372	1/4" P.T. 65° Elbow Button Head
1537	1/8" P.T. 45° Button Head Fitting
1538	1/4" P.T. 45° Button Head Fitting

PLAIN STEEL LUBRICANT CUPS

Plain Steel Lubricant Cups manufactured expressly to be used in connection with the Alemite Lubricating Systems—reinforced with Heavy Leather Washers thereby preventing leakage of lubricant through threads—designed to meet the necessities of bearings requiring large quantities of lubricant. These Cups can be equipped with our regular Pin Type Fittings. (See Pages 10 and 11.)



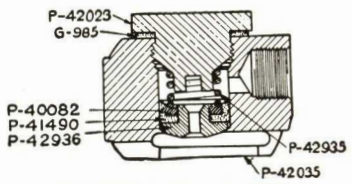
RM-00—1" Alemite Cup — RM-0—1 7/16" Alemite Cup — RM-1—1 3/4" Alemite Cup — RM-2—2" Alemite Cup

RM-00	1/8" Pipe Thread Size 1"
RM-0	1/8" Pipe Thread Size 1 7/16"
RM-1	1/4" Pipe Thread Size 1 3/4"
RM-2	1/4" Pipe Thread Size 2"
RM-22	3/8" Pipe Thread Size 2"

COUPLINGS FOR THE BUTTON HEAD SYSTEM

G-42930—Pull On Type—Button Head Coupling—Metal Sealing Washer

G-42030—Pull On Type—No Sealing Washer



Detail Illustration—G-42930

G-42930 Repair Parts

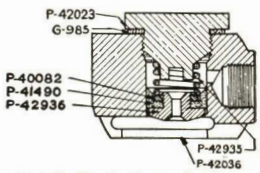
G-985	Gasket
P-40082	Washer
P-41490	Cup Leather
P-42023	Plug
P-42035	Body
P-42935	Spring
P-42936	Steel Plunger

G-42030 Repair Parts

G-985	Gasket
G-41493	Plunger Assembly
P-42023	Plug
P-42035	Body

G42931—Push On Type—Button Head Coupling—Metal Sealing Washer

G-42031—Push On Type—No Sealing Washer



Detail Illustration—G-42931

G-42931 Repair Parts

G-985	Gasket
P-40082	Washer
P-41490	Cup Leather
P-42023	Plug
P-42036	Body
P-42935	Spring
P-42936	Steel Plunger

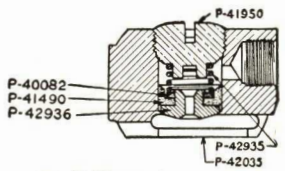
G-42031 Repair Parts

G-985	Gasket
G-41493	Plunger Assembly
P-42023	Plug
P-42036	Body

G-42932—Pull On Type—Special Button Head Coupling—Metal Sealing Washer

G-42052—Pull On Type—No Sealing Washer

G42452—Same as G-42052, But Is a Push On Coupling



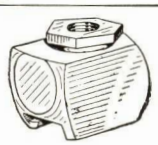
Detail Illustration—G-42932

G-42932 Repair Parts

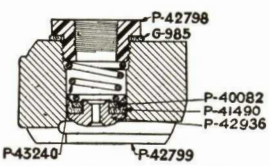
P-40082	Washer
P-41950	Plug
P-41490	Cup Leather
P-42035	Body
P-42935	Spring
P-42936	Steel Plunger

G-42052 Repair Parts

G-41493	Plunger Assembly
P-41950	Plug
P-42035	Body



G-43135—Hook On Coupling—Metal Sealing Washer



Detail Illustration—G-43135

G-43135 Repair Parts

Part No.	Description
G-985	Copper Gasket
P-40082	Washer
P-41490	Cup Leather
P-42798	Plug
P-42799	Body
P-42936	Steel Plunger
P-43240	Spring

C-559—Adapter G-42166—Adapter

Coupling Adapter

C-559	Adapter
P-42165	Adapter Body
G-42166	Adapter Complete

REPAIR PARTS

P-42023—Plug — G-41493—Plunger Assembly — P-41950—Plug — G-985—Gasket

ALEMITE INDUSTRIAL LUBRICATION SYSTEMS

GIANT BUTTON HEAD SYSTEM

VOLUME COMPRESSOR

Part No. 1001

All Metal Compressor —particularly designed for volume lubrication—twenty-eight pounds capacity—500 pounds pressure easily developed—1⅛ ounces delivered with each stroke of handle—the best results obtained by use of heavy oil or semi-solid lubricant. Particularly designed for volume and track roll lubrication.

HEAVY DUTY BUTTON HEAD TYPE GIANT FITTINGS


1203

Designed to be used in connection with heavy duty Button Head Type Hose.


1215

1215	⅜" P.T. Heavy Duty Button Head Fitting	
1201	¾" P.T. Heavy Duty Button Head Fitting	
1202	½" P.T. Heavy Duty Button Head Fitting	
1200	1" P.T. Heavy Duty Button Head Fitting	
1203	⅝"-11 M.T. Heavy Duty Button Head Fitting	
1247	½"-11 M.T. Heavy Duty Button Head Fitting	
1364	¼" P.T. Heavy Duty Button Head Fitting	
1383	¼" P.T. Heavy Duty Button Head Fitting	
1457	⅝"x18 Giant Button Head Fitting	Hardened for track roll lubrication
1510	⅜" P.T. Heavy Duty Fitting	
1511	¼" P.T. Heavy Duty Fitting	
1512	⅝" x18 Heavy Duty Fitting	

HOSE FOR GIANT BUTTON HEAD FITTINGS

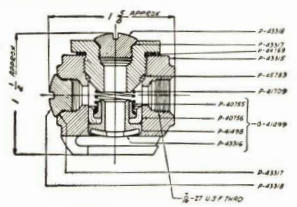
5405—3-Way Coupling—7 ft. long
5123—1-Way Coupling—5 ft. long

5078—24" Rubber Whip End Hose, Giant Button Head Coupling—⅛" Connection

For use with the Alemite Gat guns and also with larger service compressors

HOSE REPAIR PARTS

Part No.	Description
A-913	Sleeve (5124)
P-40901	Spring
P-40902	Retainer Washer
P-40903	Cup Leather
P-40904	Hose Ring
P-40905	⅜" P.T. Hose Stud
P-40996	¼" P.T. x ⅜" P.T. Bushing
P-41697	$\frac{7}{16}$"-27 Male x ⅜" P.T. Female Sleeve (5123)
P-41729	⅜"x⅜" Connection (5123)
P-42198	¼" Pipe Nipple (5124)
P-42802	¼" Coupling (5124)
P-44084	Hose Fitting
G-44085	Hose Ring, Stud and Fitting Assembly
P-44086	Sleeve Nut (5124)
G-44087	Sleeve Nut, Stud and Fitting Assembly (5124)
G-44175	Giant Pull-on Coupling (5123)
G-44376	Rubber Hose and Stud Assembly
P-44382	Extension Adapter (5123)



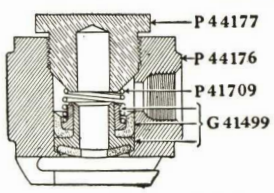
G-45778—3-way Coupling

Repair Parts

G-41499	Plunger Assembly
P-41513	Retainer Screw
P-41709	Spring
P-43315	Coupling Body
P-43317	Plug Gasket
P-43318	Plug

COUPLINGS

G-44175

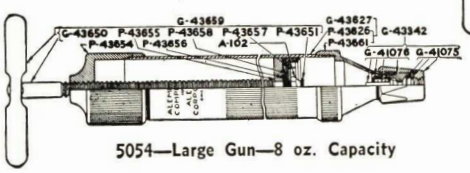


Repair Parts

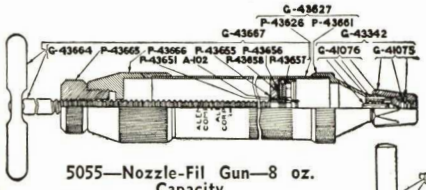
Part No.	Description
G41499	Diaphragm Assembly
P-41709	Spring
P-44176	Coupling Body
P-44177	Plug

ALEMITE-DOT STANDARD SYSTEM

The Alemite-Dot Standard Lubricating System consists of compressors and fittings. The compressors have a rigid nozzle and are to be attached directly to the fittings. The entire Alemite-Dot line is of very sturdy construction as it is made of the best materials to withstand the hard usage given in the industrial field.

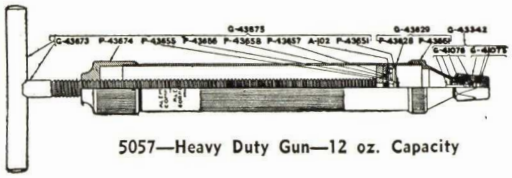


5054—Large Gun—8 oz. Capacity



5055—Nozzle-Fil Gun—8 oz. Capacity

These guns can be easily filled through the nozzle by the special Filler Tank 5047



5057—Heavy Duty Gun—12 oz. Capacity

REPAIR PARTS

A-102	Castellated Nut	P-41082	Valve Seat	P-43628	Cylinder	P-43658	Piston Spreader
G-41075	Nozzle and Gasket Assembly	P-41087	Nozzle Body	G-43650	Handle and Screw Assembly	G-43659	Handle, Head and Plunger Assembly
G-41076	Valve Assembly	G-43342	Nozzle Assembly	P-43651	Cotter Pin	P-43661	Bottom Cone
P-41077	Steel Washer	P-43626	Cylinder	P-43654	Head	G-43664	Handle and Screw Assembly
P-41078	Leather Gasket	G-43627	Cylinder and Bottom Cone	P-43655	Piston Plate Washer	P-43665	Nut
P-41079	Spring	G-43629	Cylinder and Bottom Cone Assembly	P-43656	Cup Leather	P-43666	Head
P-41080	Valve Stem Guide			P-43657	Piston Ret. Washer		
P-41081	Valve Stem						

G-43667	Handle, Head and Plunger Assembly	P-43675	Handle, Head and Plunger Assembly
G-43673	Handle and Screw Assembly		
P-43674	Head		

FOR USE ON HEAVY DUTY CONSTRUCTION MACHINERY

ALEMITE INDUSTRIAL LUBRICATION SYSTEMS

ALEMITE-DOT STANDARD SYSTEM—CONTINUED

ALEMITE-DOT STANDARD FITTINGS AND PARTS

ALEMITE-DOT STANDARD FITTINGS

Alemite-Dot Standard fittings can be had with a single ball check for regular use; a double ball check for use on air valves and water pumps; or they can be made out of a bronze material to withstand the effects of salt water on them. The fittings are listed below according to thread size and angles.

STRAIGHT FITTINGS

1480 1460 1461 1462

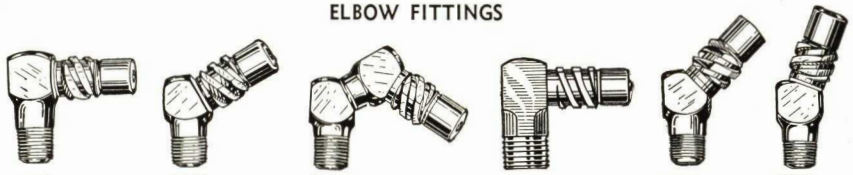
⅛" Pipe Thread Straight Fittings

1460 ⅛" P.T. Fitting, 1 3/32" long
1461 ⅛" P.T. Fitting, 1 5/32" long
1462 ⅛" P.T. Fitting, 1 13/32" long
1517 ⅛" P.T. Fitting, 1¾" long
1468 ⅛" P.T. Fitting, Double Ball Check
1482 ⅛" P.T. Fitting Bronze

¼" Pipe Thread Straight Fitting

1480 ¼" P.T. Fitting, Regular

ELBOW FITTINGS



1463 1464 1467 1475 1465 1466

60° Elbow Fittings—⅛" Pipe Thread

1464 ⅛" P.T. 60° Elbow Fitting
1470 ⅛" P.T. 60° Elbow Fitting Dbl. Ball Ck.
1484 ⅛" P.T. 60° Elbow Fitting Bronze

60° Elbow Fittings—¼" Pipe Thread

1476 ¼" P.T. 60° Elbow Fitting

Special Double Angle Fittings

1467 ⅛" P.T. 60° Double Angle Fitting
1473 ⅛" P.T. 60° Dbl. Angle Fit. Dbl. Ball Ck.

Elbow Bodies—⅛" Pipe Thread

P-43706 90° Elbow Body, ⅛" P.T.
P-43712 20° Elbow Body, ⅛" P.T.
P-43716 45° Elbow Body, ⅛" P.T.
P-43708 60° Elbow Body, ⅛" P.T.

Elbow Bodies—¼" Pipe Thread

P-43718 90° Elbow Body, ¼" P.T.
P-43723 20° Elbow Body, ¼" P.T.
P-43722 45° Elbow Body, ¼" P.T.
P-43720 60° Elbow Body, ¼" P.T.

90° Elbow Fittings—⅛" Pipe Thread

1463 ⅛" P.T. 90° Elbow Fitting
1469 ⅛" P.T. 90° Elbow Fitting Dbl. Ball Ck.
1483 ⅛" P.T. 90° Elbow Fitting Bronze

90° Elbow Fittings—¼" Pipe Thread

1475 ¼" P.T. 90° Elbow Fitting

20° Elbow Fittings—⅛" Pipe Thread

1466 ⅛" P.T. 20° Elbow Fitting
1472 ⅛" P.T. 20° Elbow Fitting, Dbl. Ball Ck.
1486 ⅛" P.T. 20° Elbow Fitting Bronze

20° Elbow Fittings—¼" Pipe Thread

1478 ¼" P.T. 20° Elbow Fitting

45° Elbow Fittings—⅛" Pipe Thread

1465 ⅛" P.T. 45° Elbow Fitting
1471 ⅛" P.T. 45° Elbow Fitting Dbl. Ball Ck.
1485 ⅛" P.T. 45° Elbow Fitting Bronze

45° Elbow Fittings—¼" Pipe Thread

1477 ¼" P.T. 45° Elbow Fitting

GUN FILLERS

Alemite Guns can easily be filled by the use of the following fillers. All that is necessary to fill a gun is to scoop up a quantity of lubricant into the filler, insert it in the gun barrel and then by holding the sliding piston against the barrel pull out on the filler handle. The sliding piston empties the lubricant into the gun barrel. Avoids waste of lubricant, use of a paddle, eliminates air pockets and keeps the lubricant clean.

5108—Junior
Used with 5050

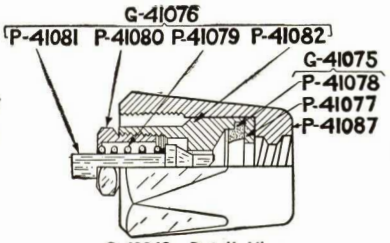
5111—Heavy Duty
Used with 5054-5060-5056

5109—Medium
Used with 5052

5110—Large
Used with 5057-5062-5059

STANDARD NOZZLE

G-41075 Nozzle Unit
G-41076 Valve Assembly
P-41077 Steel Washer
P-41078 Leather Gasket
P-41079 Valve Spring
P-41080 Valve Guide
P-41081 Valve Stem
P-41082 Valve Seat
P-41087 Nozzle Body



G-43342—Detail View

5112

FITTING WRENCH

DUST CAP

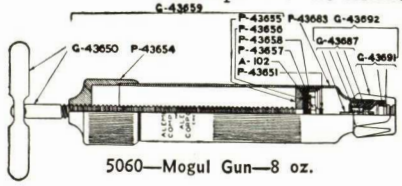
1487

ALEMITE-DOT MOGUL SYSTEM

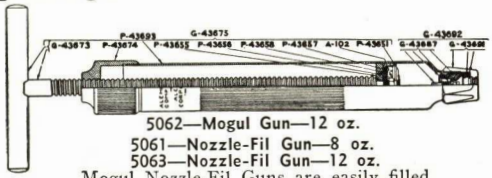
The Alemite-Dot Mogul Lubricating System is designed for hard industrial service. The fittings are larger and much stronger than the standard line. The system is designed only for industrial machines.

Mogul Guns

The Mogul Compressors are identical with the Standard Compressors except that the nozzle is larger to fit the Mogul fittings.



5060—Mogul Gun—8 oz.



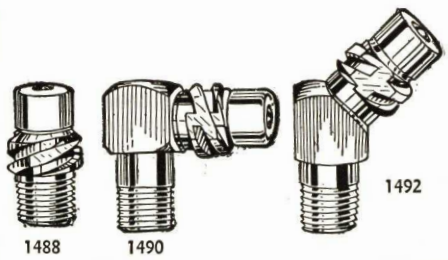
5062—Mogul Gun—12 oz.
5061—Nozzle-Fil Gun—8 oz.
5063—Nozzle-Fil Gun—12 oz.
Mogul Nozzle-Fil Guns are easily filled by Filler Tank similar to 1010, page 5

REPAIR PARTS

A-102 Castellated Nut
P-41079 Valve Spring
G-43650 Handle and Screw Assembly
P-43651 Cotter Pin
P-43654 Head
P-43655 Piston Plate
P-43656 Cup Leather
P-43657 Retaining Plate
P-43658 Spreader
G-43659 Handle, Cap and Plunger Assembly
G-43673 Handle and Screw Assembly
P-43674 Head
G-43675 Handle and Plunger Assembly
G-43679 Handle and Screw Assembly
P-43680 Nut
P-43681 Head
G-43682 Handle and Plunger Assembly
P-43683 Cylinder
P-43684 Valve Guide
P-43685 Valve Stem
P-43686 Valve Seat
G-43687 Valve Assembly
P-43688 Gasket Washer—Steel
P-43689 Leather Gasket
P-43690 Nozzle Body
G-43691 Nozzle and Gasket Assembly
G-43692 Nozzle Assembly
P-43693 Cylinder

ALEMITE INDUSTRIAL LUBRICATION SYSTEMS

ALEMITE-DOT MOGUL SYSTEM—CONTINUED



ALEMITE-DOT MOGUL FITTINGS

Alemite-Dot Mogul Fittings are very strongly made to withstand the hard industrial uses for which they are designed. They have a ¼ in. Pipe Thread. Chiefly used on cranes, mixers, bridges, etc. These fittings must be used with a gun having the Mogul Nozzle.

Straight Fittings

1488 ¼" P.T. Straight Mogul Fitting
1489 ¼" P.T. Straight Mogul Fitting 1½" long

Elbow Fittings

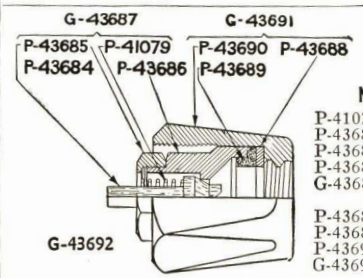
1490 90° Elbow Mogul Fitting ¼" P.T.
1491 60° Elbow Mogul Fitting ¼" P.T.
1492 45° Elbow Mogul Fitting ¼" P.T.
1493 20° Elbow Mogul Fitting ¼" P.T.

Elbow Fitting Bodies

P-43748 90° Elbow Body ¼" P.T.
P-43750 60° Elbow Body ¼" P.T.
P-43752 45° Elbow Body ¼" P.T.
P-43753 20° Elbow Body ¼" P.T.

Mogul Dust Cap

1494 Mogul Dust Cap



MOGUL NOZZLE

P-41079 Valve Spring
P-43684 Valve Guide
P-43685 Valve Stem
P-43686 Valve Seat
G-43687 Mogul Valve Assembly
P-43688 Steel Washer
P-43689 Leather Gasket
P-43690 Nozzle Body
G-43691 Nozzle Assembly

MOGUL GUN FILLERS

The following fillers are used to fill the Mogul Guns that do not have the special Nozzle-Fil feature. By the use of these fillers the guns can be easily filled without using a paddle or stick to pack the lubricant. Air pockets are avoided.

5110—Filler for 5060 Mogul Gun

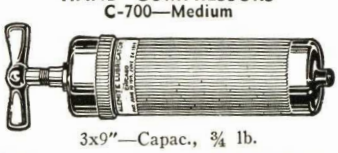
5111—Filler for 5062 Mogul Gun

ALEMITE PIN TYPE SYSTEM

HAND COMPRESSORS

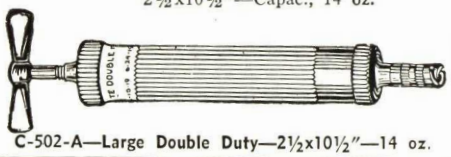
C-600—Regular
2½x8"—Capac., ½ lb.

C-700—Medium



3x9"—Capac., ¾ lb.

1080—Large
2½x10½"—Capac., 14 oz.



C-502-A—Large Double Duty—2½x10½"—14 oz.

HAND COMPRESSOR HOSE

A-1039—14" Standard Hose
A-908-A—15" Heavy Duty Conduit Hose

For use on machines equipped with Alemite Fittings. Finely woven wire.

⅛" Pipe Thread, 90° Elbow Fittings

A-358 ⅛" P.T. 90° EF
M-358 ⅛" P.T. 90° EF Non-corrosive
A-358-A ⅛" P.T. 90° EF, A-356 with A-345
1375 ⅛" P.T. 90° EF Burnished Seat
A-225 ⅛" P.T. 90° EF 1⅜" long body
1298 ⅛" P.T. 90° EF 1 3/16" long body
1293 ⅛" P.T. 90° EF 2" body
A-426 ⅛" P.T. 90° 1" Extension Fitting
1530 ⅛" P.T. 90° Extension El. Ftg. short body
1532 ⅛" P.T. 90° EF with Hexagon Cap
1507 ⅛" P.T. 90° EF Short Thread

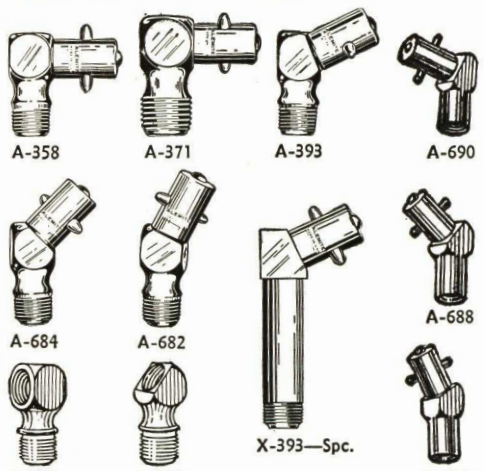
⅛" Pipe Thread, Elbow Fittings Various Angles

A-682 ⅛" P.T. 25° EF
1378 ⅛" P.T. 25° EF 2 3/32" long fitting
1336 ⅛" P.T. 25° EF 3¼" long body
A-952 ⅛" P.T. 30° EF special
A-634 ⅛" P.T. 34° EF
A-684 ⅛" P.T. 45° EF
1302 ⅛" P.T. 45° EF 1 13/16" long
1445 ⅛" P.T. 45° EF 3⅛" special
A-393 ⅛" P.T. 65°
1374 ⅛" P.T. 65°
1526 ⅛x65 EF
1292 ⅛" P.T. 65° 1 11/16" long
X-393 ⅛" P.T. 65° 2" long

¼" Pipe Thread, Elbow Fittings Various Angles

A-662 ¼" P.T. 25° EF
A-693 ¼" P.T. 45° EF
A-339 ¼" P.T. 65° EF
A-371 ¼" P.T. 90° EF
A-338 ¼" P.T. 90° EF 1⅜" long
A-245 ¼" P.T. 90° EF 3 1/16" long fitting

ALEMITE ELBOW FITTINGS



Note: For Alemite Straight Fittings see the next page following.

Water Pump Elbow

A-237 ⅛" P.T. 90° EF Water Pump
A-415 ⅛" P.T. 45° EF Water Pump

Female Fittings—Elbow

A-686 ⅛" P.T. 25° Fem. EF
A-688 ⅛" P.T. 45° Fem. EF
A-690 ⅛" P.T. 65° Fem. EF
A-384 ⅛" P.T. 90° Fem. EF
A-165 1/16"-20 M.T. EF 90°

Special Fittings

A-218 ¼"-32 M.T. 90° EF
A-219 ¼"-20 M.T. 90° EF
A-378 5/16"-32 M.T. 90° EF
A-188 ⅜"-24 M.T. 90° EF

Elbow Bodies

A-356 ⅛" P.T. 90° Elbow Body
A-224 ⅛" P.T. 90° Elbow Body 1⅜" long
A-681 ⅛" P.T. 25° Elbow Body
A-683 ⅛" P.T. 45° Elbow Body
A-392 ⅛" P.T. 65° Elbow Body
A-366 ¼" P.T. 90° Elbow Body
A-383 ⅛" P.T. Female Elbow Body 90°
A-687 ⅛" P.T. Female Elbow Body 45°
A-164 7/16"-20 M.T. EF Body 90°
P-41338 ⅛" 90° Elbow Body 2" long

USE ALEMITE-DOT MOGUL SYSTEM FOR HEAVY DUTY POWER SHOVELS

ALEMITE INDUSTRIAL LUBRICATION SYSTEMS

ALEMITE PIN TYPE SYSTEM—CONTINUED

Female Straight Fittings

A-387 $\frac{5}{16}$"-27 M.T. Female St.
A-382 $\frac{1}{8}$" P.T. St. Regular, Female
A-856 $\frac{7}{16}$"-27 M.T. Female St.
1255 $\frac{1}{4}$" P.T. Female St.

Waterpump Fittings—Male

A-850 $\frac{1}{8}$" P.T. Waterpump St.
A-299 $\frac{1}{4}$" P.T. Waterpump St.
1397 Double Ball Check W.P. Fitting

Rivet Fittings

1366 $\frac{5}{16}$" Rivet Fitting
A-350 $\frac{11}{32}$" Rivet Fitting

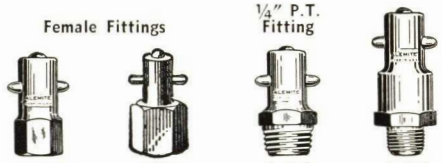
Special Thread Fittings

A-212 $\frac{1}{4}$"-20 M.T. St.
1330 $\frac{1}{4}$"-20 M.T. St. 1 $\frac{7}{8}$" long
A-232 $\frac{1}{4}$"-24 M.T. St.
A-210 $\frac{1}{4}$"-32 M.T. St.
A-319-A $\frac{5}{16}$"-18 M.T. St.
A-248 $\frac{5}{16}$"-20 M.T. St.
A-475 $\frac{5}{16}$"-24 M.T. St.
A-273 $\frac{5}{16}$"-32 M.T. St.
A-214 $\frac{3}{8}$"-16 M.T. St.
A-171 $\frac{3}{8}$"-24 M.T. St. 1" long
A-163 $\frac{1}{2}$"-20 M.T. St.

STRAIGHT FITTINGS

Female Fittings

$\frac{1}{4}$" P.T. Fitting



$\frac{1}{8}$" Pipe Thread Fittings

Arranged according to length of fitting

A-345 $\frac{1}{8}$" P.T. Short St. $\frac{37}{64}$" long
A-345-D $\frac{1}{8}$" P.T. Short St., less Ball and Spring
A-310 $\frac{1}{8}$" P.T. Round St. 1" long
A-332 $\frac{1}{8}$" P.T. Short St. 1" long with Duroil Disc
A-336 $\frac{1}{8}$" P.T. St. Regular
M-336 $\frac{1}{8}$" P.T. St. Non-corrosive
1529 $\frac{1}{8}$" P.T. St. with Threaded Cap
A-425 $\frac{1}{8}$" P.T. St. 1 $\frac{1}{4}$" long, round
A-201 $\frac{1}{8}$" P.T. St. 1 $\frac{3}{8}$" Hex.
1234 $\frac{1}{8}$" P.T. St. 1 $\frac{1}{2}$" long, round
A-536-A $\frac{1}{8}$" P.T. St. 2" long, round
1240 $\frac{1}{8}$" P.T. St. 2 $\frac{1}{4}$" long, two piece
A-197 $\frac{1}{8}$" P.T. St. with Extension Tube 2 $\frac{3}{4}$" long

$\frac{1}{4}$" Pipe Thread Straight Fitting

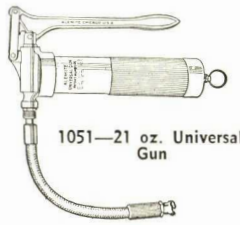
A-359 $\frac{1}{4}$" P.T. St. Regular

$\frac{3}{8}$" Pipe Thread

A-238 $\frac{3}{8}$" P.T. St.

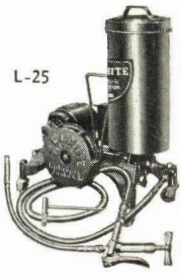
ALEMITE-GAT HANDY SHOP GUNS

These guns combine the best features thus far known in Handy Shop Gun design. Each is different and used for different purposes: The All-in-One Guns have the double feature of volume per stroke and extremely high pressure whenever needed; the Universal Gun is primarily a volume gun delivering one-half ounce of lubricant per stroke; the Alemite Gat Gun is a high pressure gun. All are easily filled by removing head from cylinder, inserting open end of cylinder into lubricant and pulling back the thrust rod or chain follower. The powerful suction created fills the cylinder with lubricant and by replacing the head, gun is ready for use.


1051—21 oz. Universal Gun


1054—15 oz. Alemite-Gat Gun

SERVICE COMPRESSORS


L-25

Lubrigun No. L-25

Operates from any electric outlet or socket. Current and cycle must be specified. Semi-automatic in operation. Develops 5000 lbs. pressure at coupling. Capacity, 25 lbs. Complete with 7-ft. rubber hose, booster release valve, rubber whip and hose and connection for use with Push-type systems.

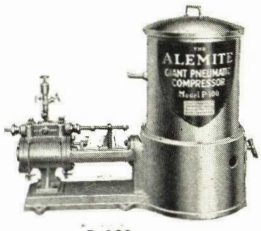
Lubrigun No. L-75

Similar to L-25 but holds 80 lbs. of lubricant making it satisfactory for use as a stationary gun. Will take care of 3 or 4 lubricant leads. Hose leads must be ordered separately. Cycle and current must be specified.


L-75

Giant Compressors

Made in two types: P-100 and P-400 pneumatic and S-100 and S-400 steam, in 100 and 400-lb. capacities each. P-100 will deliver 7 lbs. of lubricant per min. at 100 lbs. pressure. Where steam is available the steam compressors may be used. They deliver approximately 20 lb. lubricant per min. at 100 lbs. steam pressure. Giant Compressors can be used with one or more outlets. Hose assemblies are extra.



P-100

Positive Primed Compressors

PA-100 is recommended for handling heavy lubricants. It has an air ram inside lubricating tank, which forces lubricant out of tank into plunger chamber thence to destination by plunger driven by air motor. Capacity 16½ lbs.

PA-400 is identical to PA-100 but has a capacity of 400 lbs. of lubricant, taking a complete drum.


PA400

Airline Lubrigun—5346

A portable, air operated, automatic, high pressure unit of 33 lbs. capacity. It is simple in design and operates by a powerful double-acting air motor developing high lubricant pressure. Equipped with standard Alemite hose outlet, 7-ft. rubber hose and 2-ft. whip end hose.


5346

Heavy Duty Compressor—5370

Designed to pump extremely heavy and fibrous lubricants. Has double-acting air motor which pumps lubricant at a pressure of 32 times the air pressure used: Capacity, 25 lbs. Equipped with universal volume swivel, 10-ft. volume hose, swivel coupling and 2-ft. whip end hose.


5370

THERE ARE ALEMITE SERVICE COMPRESSORS FOR EVERY INDUSTRIAL PURPOSE

ALEMITE INDUSTRIAL LUBRICATION SYSTEMS

ALEMITE METRO-MATIC SYSTEM

THIS is a multiple pipe line system for lubricating heavy industrial machinery that forces the lubricant into all bearings while the machine is running. This system provides a number of distinct advantages, including:

(1) Every bearing is positively and thoroughly lubricated with a measured amount of lubricant without stopping the machine.

(2) Any number of branches may be taken off at any point in the system—each bearing gets the lubricant at the same time the one nearby does.

(3) No bearing can be missed—repairs are reduced to the minimum and the life of bearing and machine are greatly prolonged.

(4) Simplicity in operation is the keynote—there are no combinations to remember—just pump the handle a few times a day and the system takes care of the rest.

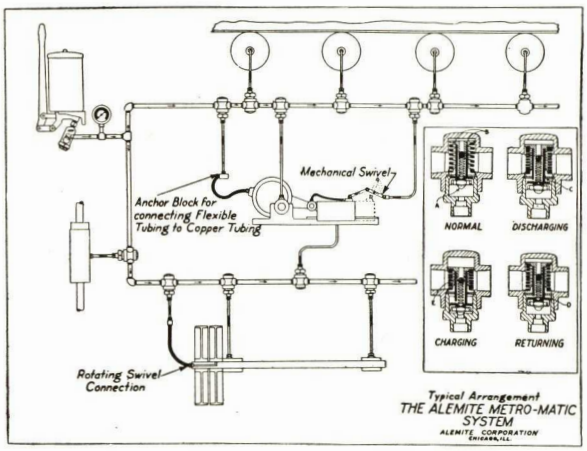
(5) Since the personal hazard to the workmen is greatly reduced, general efficiency is correspondingly increased.

(6) No lubricant is wasted and the appearance of the plant is improved by the elimination of all oil drippings.

Description and Operation of the System

The Alemite Metro-Matic Lubrication System uses a pipe line arrangement whereby the lubricant is forced under high pressure to each bearing on the machine. A measuring valve, located on the pipe line near the bearing, discharges a predetermined amount of lubricant at each operation of the pump handle.

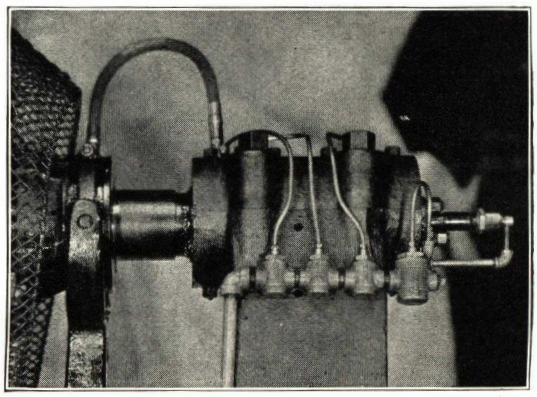
A short length of copper tubing conducts the lubricant from the measuring valve on the pipe line to the bearing, and it is the unique operation of these measuring valves that makes this system of lubrication so outstanding. It is absolutely different from any other system on the market today, in that there is no condition under which the lubricant can bypass into the line—it *must* go into the bearing. Also the measuring valves located on the pipe line are connected in multiple, and as many branches as necessary can be taken off at any point where other bearings need to be supplied.



To operate the machine, merely pump up a pressure of 2000 pounds in the compressor and then release the valve. This operation has done two things in the lubricating system. A new and measured shot of clean lubricant has been forced into each bearing, and the continued pressure has forced a new load of lubricant into all the vacuum chambers, thereby charging the measuring valves for the next discharge operation.

A glance at the accompanying illustration will show the operation of the measuring valve. From the previous operation there is already a supply of lubricant in chamber A, sufficient to thoroughly lubricate the bearing. When the pressure is increased throughout the system, the plunger B is forced downward causing lubricant in A to pass down the copper tubing to the bearing. As the plunger goes down, a vacuum is created in C, which space gets larger the farther down plunger B is forced. When the plunger is down as far as it can go and the lubricant is in the bearing, the increasing pressure in the pipe line forces the lubricant past the ball check valve E and down into chamber C. Then, as the pressure is released throughout the system, the plunger B rises and the lubricant directly above it can go no place else except past the leather jacket D into the bottom chamber A. There it stays until the next working of the compressor, when the whole operation is repeated.

There is nothing to get out of order, nothing to fail—everything is automatic and exactly measured. No time is lost in shutting down the machine—every bearing gets its right amount of clean, fresh lubricant every time the system is operated.



Close-up Showing Flexible Hose Connection, Measuring Valves and Rotating Swivel

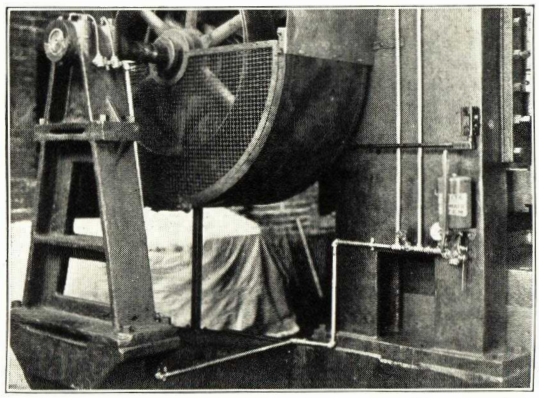


Illustration Showing Metro-Matic Pump, Gauge and Shut-off Valve

ALEMITE LUBRICANTS

ALEMITE INDUSTRIAL LUBRICANTS

ALEMITE FLUID LUBRICANT

A calcium base lubricant and, as its name implies, is fluid. It has many uses. It may be used in chain oiling motors and generators of the larger type, operating at variable speeds and loads. It is excellent for use in saturating wool yarn, waste and yarn elastic used on underfeed bearings of the M. C. B. type. It is an admirable lubricant for replacing oil, which may be applied through the medium of oil cans where drive fittings have not been installed. One drop of this lubricant will last longer and lubricate better than four to six drops of the best lubricating oil.

ALEMITE INDUSTRIAL LUBRICANT

A calcium base lubricant of medium consistency, made up of pure animal fats, and an oil of 400 sec. viscosity at 100° F. It is water repellent and may be used in contact with water. It contains no grit or solids to cut away the bearing surfaces, and will not cake or gum in the lubricant grooves. It is especially recommended for the following uses:

1. In all high pressure systems.
2. On all small to medium plain bearings operating at either high or low speeds, and for all ball bearings where balls are employed up to ⅞ in. regardless of speed or loads.
3. For the saturation of wool yarn used in open boxes where temperatures do not exceed 185° F.
4. For the lubrication of all bearings on an extended line where lubricant is fed from a central station and carried through pipes of ¼ in. inside diameter or less for a distance of 75 feet or more.
5. For many types of Roller Bearings.

It may be applied with any Alemite equipment. It is necessary to make but one application of this lubricant where it has been customary to apply ordinary greases three or four times.

ALEMITE LUBRICANT NO. 33

In the same category, as far as makeup is concerned, as the regular Alemite Industrial Lubricant, but it is of a slightly heavier consistency. It has been designed for heavier duty service than the other. Its temperature range is from 25° below zero to 200° F.

ALEMITE GRAPHITE LUBRICANT

About the same consistency as that of Alemite Lubricant No. 33. We use a very high grade of pure, powdered flake graphite in its manufacture, which is free from all abrasives. The chief claims for good, flake graphite are the smoothing out of scored surfaces, due to the small holes being filled with graphite which forms a smooth, metal-like film.

400-Lb. Drum with Truck

The adhesiveness of this lubricant is slightly better than the regular Alemite Lubricants.

ALEMITE LUBRICANT W. B. NO. 1

A calcium base lubricant of a still heavier consistency than either Alemite Industrial Lubricant or Alemite Lubricant No. 33. Because of this it should be used for heavy duty service and is most satisfactorily applied with the Alemite Dot System. It is serviceable at temperatures up to 210° F. It may be used on large roller bearings of 1½ in. diameter or more, which are subjected to heavy duty and operate at speeds not in excess of 300 r.p.m.

ALEMITE HIGH TEMPERATURE LUBRICANT

A sodium base lubricant designed especially for use on bearings subjected to high frictional and artificial temperatures. It will not carbonize and leave a residue in the bearing, even under very high temperatures. It is an excellent lubricant for ball bearings of ⅜ in. and larger diameters, regardless of heat conditions, and may be applied with Alemite Pin Type or Push Type Compressors, or may be used in hand and spring automatic grease cups. It is excellent for the lubrication of high speed woodworking machinery and other machinery of similar character operating at unusually high speeds.

ALEMITE PYRO LUBRICANT

Very similar in its makeup to Alemite High Temperature Lubricant. It is of a slightly heavier consistency and is satisfactory at temperatures up to 380° F. It is an ideal lubricant for all bearings where the operating temperatures fall within this range.

ALEMITE BLOCK LUBRICANTS

Made in two grades, dark and light, with respective melting points of 370° and 400° F. These lubricants are of an entirely different character from the Alemite Lubricants mentioned above and, as their name implies, are of a solid character and are in the same category as the other sodium base lubricants. They are to be used on bearings of the open box type, where the lubricant rests directly on the shaft. They are especially adapted for use in the paper and cement industries.

ALEMITE FIBROUS LUBRICANT

Can be used to advantage on bearings where the conditions and design require the use of a fibrous lubricant. It has a sodium base with a melting point of approximately 270° F., is free from acid, excess alkali, fillers and abrasives. It does not pit bearing contacts and lasts longer in bearings because of its composition and structure. Used extensively for lubricating universal joints.

ALEMITE GEAR LUBRICANTS

ALEMITE GEAR LUBRICANT NO. 2

A strictly fluid calcium base gear lubricant that is made from an oil of 900 viscosity at 100° F., compounded with pure animal fats. It is recommended especially for small, encased gears operating at high speeds under light loads where low temperature conditions prevail. It is of a slightly thinner consistency than Alemite Special Gear Lubricant.

ALEMITE SPECIAL GEAR LUBRICANT

A straight run oil and has a viscosity of 5,000 sec. at 100° F. and 200 sec. at 210° F., and a pour test of approximately 10° F. It is a strictly fluid lubricant with a fine, heavy body that is recommended for use on light duty and small encased gears operating in a bath at either high or low speed under light loads.

ALEMITE EXTREME PRESSURE LUBRICANTS

Alemite Heavy Duty Gear Lubricant S. A. E. 160—Our heaviest type of Extreme Pressure Lubricant, although it is of a semi-fluid nature. It will withstand extreme pressure due to chemically combined sulphur. It has a pour test of approximately 5° above zero.

Alemite Extreme Pressure Lubricant S. A. E. 110—Has the same characteristics as Heavy Duty Gear except that it is lighter in body and has a pour test of zero.

Alemite Extreme Pressure Lubricant S. A. E. 90—Is of the same family—has a lighter body—and has a pour test of 10° below zero. These lubricants are all for use in small and medium high speed and herringbone type gears, and by virtue of their great pressure-resisting qualities and cooling effects they are admirably suited for industrial uses where the gear cases are leakproof.

100-Lb. Drum with Truck

ALEMITE GEAR LUBRICANT NO. 3½ (SEMI-FIBROUS)

A semi-fluid gear lubricant that may be used at temperatures of from 30° F. to 250° F. It has a very heavy body that will stand up under hard usage. It is ideal for medium sized and fairly large encased gears, operating at medium and slow speeds under comparatively heavy loads, and for light duty, open gears, operating at slow speeds.

ALEMITE GEAR LUBRICANT NO. 6

A heavy, fibrous, solid base gear lubricant that has been designed for heavy duty service and is recommended for use in encased gears where moisture is excluded at temperatures ranging from 200° F. to 300° F. It may also be used satisfactorily on similar gears operating under normal temperatures.

ALEMITE LEAD BASE LUBRICANT NO. 8

A fluid, lead base lubricant with a mineral oil content of the highest character. Its lubricating qualities are unexcelled and it is admirably adapted for the lubrication of reduction gears of all types. It is most efficient on all types of worm gears operating under all conditions.

ALEMITE GEAR LUBRICANT NO. 329

A very heavy, straight-run oil with a viscosity of 300 secs. at 210° F. It is admirably suited for open gears, tractor work, and is well suited where a chain drive lubricant or a wire rope lubricant is desired. In fact there are many uses in the industrial field for a lubricant of such a heavy viscosity.

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